

### Claim Amendments

1. (original) A magnetic/metallic security device for use with an item to provide multiple security features, said magnetic/metallic security device comprising:

a carrier substrate having a width;

a metallic layer disposed on at least a portion of said carrier substrate, for providing metallic security features, wherein said metallic layer forms a plurality of conductive regions on said carrier substrate, wherein said conductive regions are separated by non-conductive regions which extend entirely across said width of said carrier substrate; and

a magnetic layer disposed on and in substantially identical registration with at least one of said plurality of said conductive regions, for providing magnetic security features, wherein said magnetic layer and said at least one conductive regions in substantially identical registration include recesses, said recesses forming visually identifiable indicia.

2. (original) The magnetic/metallic security device of claim 1, wherein said magnetic layer includes a chemical resist.

3. (original) The magnetic/metallic security device of claim 1, wherein said magnetic layer includes a hard magnetic substance capable of being magnetized for recording data on said magnetic layer.

4. (original) The magnetic/metallic security device of claim 1, wherein said magnetic layer includes at least one type of magnetic substance having at least one predetermined magnetic characteristic, and wherein said at least one predetermined magnetic characteristic is detectable, for authenticating an item having said security device.

5. (original) The magnetic/metallic security device of claim 4, wherein said at least one type of magnetic substance is a soft magnetic pigment capable of holding a level of magnetism for a limited period of time, and wherein said at least one predetermined magnetic characteristic includes said level of magnetism capable of

being held by said soft magnetic pigment and a rate of decay of said level of magnetism over said limited period of time.

6. (original) The magnetic/metallic security device of claim 1, wherein said magnetic layer includes at least first and second types of magnetic substances having at least first and second predetermined magnetic characteristics respectively, and wherein said first and second types of magnetic substances are arranged in said magnetic layer in a predetermined pattern representing data encoded with said magnetic layer such that said first and second predetermined characteristics are detectable to read said predetermined pattern and decode said data.

7. (original) The magnetic/metallic security device of claim 6, wherein said first and second predetermined magnetic characteristics represent binary integers, and wherein said predetermined pattern of said first and second types of magnetic substances represents data in a binary coded format.

8. (original) The magnetic/metallic security device of claim 6, wherein said first and second types of magnetic substances having said first and second predetermined magnetic characteristics include first and second soft magnetic pigments having first and second predetermined magnetic decay rates.

9. (original) The magnetic/metallic security device of claim 6, wherein said first and second types of magnetic substances having said first and second predetermined magnetic characteristics include first and second soft magnetic pigments capable of holding first and second predetermined levels of magnetism.

10. (original) The magnetic/metallic security device of claim 1, wherein at least a portion of said metal layer includes at least one predetermined magnetic characteristic, and wherein said at least one predetermined magnetic characteristic is detectable, for authenticating an item having said security device.

11. (original) The magnetic/metallic security device of claim 1 wherein at least first and second conductive regions of said plurality of conductive regions separated by non-conductive regions have at least two different predetermined lengths forming at least first and second metallic characteristics respectively, forming a

predetermined pattern representing data encoded by said metallic layer, and wherein said predetermined pattern may be detected and read to decode said data.

12. (original) The magnetic/metallic security device of claim 11, wherein said conductive regions include first and second predetermined lengths representing binary integers, and wherein said predetermined pattern of said first and second lengths of said conductive regions encodes said data in a binary coded format.

13. (original) The magnetic/metallic security device of claim 11, wherein said data encoded by said predetermined pattern of said conductive regions is a verification code.

14. (original) The magnetic/metallic security device of claim 1, wherein said visually identifiable graphic indicia is formed positively on said carrier substrate by said magnetic layer and said metallic layer underlying said magnetic layer.

15. (original) The magnetic/metallic security device of claim 1, wherein said visually identifiable indicia is formed negatively on said carrier substrate by said magnetic layer and said metallic layer underlying said magnetic layer.

16. (original) The magnetic/metallic security device of claim 1, further including a coating layer disposed over said visually identifiable indicia formed by said metallic layer and said magnetic layer.

17. (original) The magnetic/metallic security device of claim 16, wherein said visually identifiable indicia is hidden when viewed by reflected light and is observable when viewed by transmitted light.

18. (original) The magnetic/metallic security device of claim 1, further including at least one magnetic track disposed along at least a portion of said substrate, for recording data.

19. (original) A magnetic security device for use with an item, said magnetic security device comprising:

a carrier substrate having a width;

a metallic layer disposed on at least a portion of said carrier substrate, for providing metallic security features, wherein said metallic layer forms a plurality of conductive regions on said carrier substrate,

wherein said conductive regions are separated by non-conductive regions which extend entirely across said width of said carrier substrate; and

a magnetic layer disposed on and in substantially identical registration with at least one of said plurality of conductive regions, for providing magnetic security features, wherein said magnetic layer and said at least one conductive regions in substantially identical registration include recesses, said recesses forming visually identifiable indicia, wherein said plurality of magnetic regions include at least first and second types of soft magnetic pigments having first and second predetermined magnetic decay rates, wherein said plurality of magnetic regions having said first and second predetermined magnetic decay rates are arranged in a predetermined pattern representing data encoded by said magnetic regions such that said first and second predetermined magnetic decay rates are capable of being detected and read to decode said data.

20. (original) The magnetic security device of claim 19, wherein said first and second predetermined magnetic decay rates represent binary integers, and wherein said predetermined pattern of said magnetic regions having said first and second predetermined magnetic decay rates represents data in a binary coded format.

21. (original) The magnetic security device of claim 19, wherein said first and second types of soft magnetic pigments are capable of holding first and second predetermined levels of magnetism, wherein said magnetic regions having said first and second levels of magnetism are arranged in said predetermined pattern such that said first and second levels of magnetism may be detected and read to decode said data encoded by said magnetic regions.

22. (original) The magnetic security device of claim 19, wherein said magnetic regions are formed as graphic indicia on said carrier substrate.

23. (currently amended) A metallic security device for use with an item, said metallic security device comprising:

a carrier substrate having a width; and

a plurality of conductive regions disposed on said carrier substrate, wherein said conductive regions are separated by non-conductive regions which extend entirely across said width of said carrier substrate and have at least two different predetermined lengths forming a predetermined pattern for representing encoded data, and wherein said predetermined lengths of said conductive regions are detectable to read said predetermined pattern and decode said data,

wherein said non-conductive regions are formed as graphic indicia and said conductive regions are formed around said graphic indicia.

24. (canceled).

25. (canceled).

26. (original) A method of making a magnetic/metallic security device having a plurality of security features, said method comprising:

providing a carrier substrate having first and second surfaces;

applying a metallic layer to at least a portion of said first surface of said carrier substrate;

applying a magnetic layer over at least a portion of said metallic layer; and

etching said magnetic layer and said metallic layer such that at least a portion of said magnetic layer and said metallic layer are in substantially identical registration and together form visually identifiable indicia on said carrier substrate, wherein said metallic layer is etched such that said metallic layer forms a plurality of conductive regions on said substrate, wherein said conductive regions are separated by non-conductive regions extending across an entire width of said carrier substrate.

27. (original) The method of claim 26, wherein etching said magnetic layer and said metallic layer includes chemically etching said magnetic layer and said metallic layer.

28. (original) The method of claim 26, wherein etching said magnetic layer and said metallic layer includes laser etching said magnetic layer and said metallic layer.

29. (original) The method of claim 26, wherein etching said magnetic layer and said metallic layer includes mechanically scribing said magnetic layer and said metallic layer.

30. (original) The method of claim 26, wherein said magnetic layer includes at least first and second types of magnetic substances having at least first and second predetermined magnetic characteristics respectively, and wherein said magnetic layer is applied such that said first and second types of magnetic substances are arranged in said magnetic layer in a predetermined pattern.

31. (original) A method of making a magnetic/metallic security device having a plurality of security features, said method comprising:

providing a carrier substrate having first and second surfaces;

applying a metallic layer to at least a portion of said first surface of said carrier substrate;

applying a magnetic chemical resist to at least a portion of said metallic layer, wherein said magnetic chemical resist forms a pattern on said metallic layer; and

chemically etching said metallic layer to remove exposed portions of said metallic layer, wherein chemical etching is resisted by said magnetic chemical resist such that said magnetic chemical resist and at least a portion of said metallic layer underlying said magnetic chemical resist are in substantially identical registration and together form visually identifiable indicia on said carrier substrate, wherein said metallic layer is chemically etched such that said metallic layer forms a plurality of conductive regions on said substrate, wherein said conductive regions are separated by non-conductive regions extending across an entire width of said carrier substrate.

32. (original) The method of claim 31, wherein said magnetic chemical resist includes a film-forming chemical resisting resin containing magnetic pigments.

33. (original) The method of claim 32, wherein said film-forming chemical resisting resin includes a resin selected from the group consisting of solvent based resins, water based resins, solid based resins, ultra violet polymerized resins, and electron beam polymerized resins.

34. (original) The method of claim 32, wherein said magnetic pigments include soft magnetic pigments having at least one predetermined magnetic characteristic.

35. (original) The method of claim 31 wherein the step of applying said magnetic chemical resist includes printing said pattern using said magnetic chemical resist.

36. (original) The method of claim 31 further including:

applying an additional layer over said pattern formed by said magnetic chemical resist and said portion of said metallic layer underlying said magnetic chemical resist.

37. (currently amended) A method of authenticating a magnetic/metallic security device, the device having a width and including at least one magnetic region having at least one predetermined magnetic characteristic, a plurality of ~~and at least one~~ metallic, conductive regions ~~region~~ each having at least one a predetermined metallic characteristic and non-conductive regions, wherein said non-conductive regions extend entirely across said width of said security device, said method comprising the steps of:

~~charging~~ magnetizing said magnetic region of said magnetic/metallic security device;

detecting said predetermined magnetic characteristic of said ~~charged~~ magnetized magnetic region;

detecting said ~~at least one~~ predetermined metallic ~~characteristic~~ characteristics of said ~~at least one~~ metallic ~~region~~ regions; and

comparing said at least one predetermined magnetic characteristic and said ~~at least one~~ predetermined metallic characteristic characteristics to expected magnetic and metallic characteristics.

38. (original) The method of claim 37 wherein said magnetic characteristic includes a magnetic level.

39. (original) The method of claim 38 wherein said magnetic level is selected from the group consisting of a high magnetic level, a low magnetic level and a medium magnetic level.

40. (original) The method of claim 37 wherein said magnetic characteristic includes the rate of decay of said charged magnetic region.

41. (original) The method of claim 37 further including before the step of charging said magnetic region the step of determining the presence of said magnetic region on said magnetic/metallic security device.

42. (original) The method of claim 37 further including before the step of charging said magnetic region the step of determining the presence of said metallic region on said magnetic/metallic security device.

43. (original) The method of claim 37 wherein said at least one magnetic region includes hard magnetics for recording data thereon, and further including the step of reading said data recorded on said at least one magnetic region.

44. (original) The method of claim 43 wherein said data recorded on said magnetic region includes analog data.

45. (original) The method of claim 43 wherein said data recorded on said magnetic region includes digital data.

46. (original) The method of claim 37 wherein said metallic characteristic includes a length of said metallic region.

47. (currently amended) A magnetic/metallic security device for use with an item to provide multiple security features, said magnetic/metallic security device comprising:

a carrier substrate having a width;



a metallic layer disposed on at least a portion of said carrier substrate, for providing metallic security features, wherein said metallic layer forms a plurality of conductive regions on said carrier substrate, and wherein said conductive regions are separated by non-conductive regions which extend entirely across said width of said carrier substrate; and

a magnetic layer disposed on and in substantially identical registration with said metallic layer, for providing magnetic security features, wherein said magnetic layer and said metallic layer together form visually identifiable graphic indicia on said at least a portion of said carrier substrate.

48. (original) The magnetic/metallic security device of claim 47, wherein said visually identifiable graphic indicia is formed as magnetic/metal graphic indicia readable by MICR detectors.

49. (currently amended) A magnetic/metallic security device for use with an item to provide multiple security features, said magnetic/metallic security device comprising:

a carrier substrate having a width;

a metallic layer disposed on at least a portion of said carrier substrate, for providing metallic security features, wherein said metallic layer forms a plurality of conductive regions on said carrier substrate, and wherein said conductive regions are separated by non-conductive regions which extend entirely across said width of said carrier substrate; and

a magnetic layer disposed on and in substantially identical registration with said metallic layer, for providing magnetic security features, wherein said magnetic layer and said metallic layer together form visually identifiable magnetic/metal graphic indicia on said at least a portion of said carrier substrate.

50. (original) A metallic security device for use with an item, said metallic security device comprising:

a carrier substrate having a width; and

a plurality of conductive regions formed by a metallic layer disposed on said carrier substrate, wherein said conductive regions are separated by non-conductive regions extending across said width of said carrier substrate, said conductive regions having at least two different predetermined lengths forming a predetermined pattern for representing encoded data, and wherein said predetermined pattern may be detected and read to decode said data; and

a magnetic layer disposed on and in substantially identical registration with said metallic layer at least in said plurality of conductive regions, for providing magnetic security features, wherein said magnetic layer and said metallic layer in substantially identical registration include recesses, said recesses forming visually identifiable indicia.

51. (original) A method of making a magnetic/metallic security device having a plurality of security features, said method comprising:

providing a carrier substrate having a width and first and second surfaces;

applying a metallic layer to at least a portion of said first surface of said carrier substrate, said applied metallic layer forming a plurality of conductive regions separated by nonconductive regions that extend entirely across said width of said carrier substrate;

applying a magnetic layer over at least a portion of said metallic layer; and

etching at least one of said magnetic layer and said metallic layer such that at least a portion of said magnetic layer and said metallic layer are in substantially identical registration and wherein said magnetic layer and said metallic layer in substantially identical registration include recesses, said recesses forming visually identifiable indicia.

52. (original) A method of making a magnetic/metallic security device having a plurality of security features, said method comprising:

providing a carrier substrate having a width and first and second surfaces;

applying a metallic layer to at least a portion of said first surface of said carrier substrate;

applying a magnetic chemical resist to at least a portion of said metallic layer, wherein said magnetic chemical resist forms a pattern on said metallic layer; and

chemically etching said metallic layer to remove exposed portions of said metallic layer forming a plurality of conductive regions separated by non-conductive regions that extend entirely across said width of said carrier substrate, wherein chemical etching is resisted by said magnetic chemical resist such that said magnetic chemical resist and at least a portion of said metallic layer underlying said magnetic chemical resist are in substantially identical registration and together form visually identifiable indicia on said carrier substrate, and wherein said magnetic layer and said metallic layer in substantially identical registration include recesses, said recesses forming said visually identifiable indicia.

53. (currently amended) A method of making a magnetic/metallic security device having a plurality of security features, said method comprising:

providing a carrier substrate having a width and first and second surfaces;

applying a metallic layer directly to at least a portion of said first surface of said carrier substrate, wherein said metallic layer forms a plurality of conductive regions on said carrier substrate, wherein said conductive regions are separated by non-conductive regions which extend entirely across said width of said carrier substrate; and

applying a magnetic layer over at least a portion of said metallic layer such that at least a portion of said magnetic layer and said metallic layer are in substantially identical registration and wherein said magnetic

layer and said metallic layer in substantially identical registration together form visually identifiable graphic indicia.

54. (currently amended) A magnetic/metallic security device for use with an item to provide multiple security features, said magnetic/metallic security device comprising:

- a carrier substrate having a width; and

- a magnetic/metal security feature comprising:

- a magnetic/metal security feature including a metallic layer disposed on at least a portion of said carrier substrate, for providing metallic security features, along with a magnetic layer disposed on and in substantially identical registration with said metallic layer, for providing magnetic security features, wherein said metallic layer forms a plurality of conductive regions on said carrier substrate, wherein said conductive regions are separated by non-conductive regions which extend entirely across said width of said carrier substrate, and wherein said magnetic layer and said metallic layer together form visually identifiable magnetic/metal graphic indicia on said at least a portion of said carrier substrate; and/or

- a magnetic/metal security feature including a metallic layer disposed on at least a portion of said carrier substrate, for providing metallic security features, wherein said metallic layer forms a plurality of conductive regions on said carrier substrate, wherein said conductive regions are separated by non-conductive regions which extend entirely across said width of said carrier substrate, along with a magnetic layer disposed on and in substantially identical registration with at least one of said plurality of conductive regions, for providing magnetic security features, wherein said magnetic layer and said at least one conductive region regions in substantially identical registration include recesses, said recesses forming visually identifiable indicia.

55. (currently amended) A magnetic/metallic security device for use with an item to provide multiple security features, said magnetic/metallic security device comprising:

a carrier substrate having a width;

a metallic layer disposed on at least a portion of said carrier substrate, for providing metallic security features, wherein said metallic layer forms a plurality of conductive regions on said carrier substrate, wherein said conductive regions are separated by non-conductive regions which extend entirely across said width of said carrier substrate; and

a magnetic layer disposed on and in substantially identical registration with said metallic layer, for providing magnetic security features, wherein said magnetic layer and said metallic layer together form visually identifiable magnetic/metal graphic indicia in the form of discrete, non-connected, graphic indicia on said at least a portion of said carrier substrate.

56. (original) A magnetic/metallic security device for use with an item to provide multiple security features, said magnetic/metallic security device comprising:

a carrier substrate having a width;

a metallic layer disposed on at least a portion of said carrier substrate, for providing metallic security features, wherein said metallic layer forms a plurality of conductive regions on said carrier substrate, wherein said conductive regions are separated by non-conductive regions which extend entirely across said width of said carrier substrate; and

a magnetic layer disposed on and in substantially identical registration with at least a portion of at least one of said plurality of said conductive regions, for providing magnetic security features, wherein said magnetic layer and said at least a portion of at least one conductive region

in substantially identical registration include recesses, said recesses forming visually identifiable indicia.

57. (original) The magnetic/metallic security device of claim 56, which further comprises a coating layer disposed over said magnetic layer.

58. (currently amended) A magnetic/metallic security device for use with an item to provide multiple security features, said magnetic/metallic security device comprising:

- a carrier substrate having a width; and

- a magnetic/metal security feature comprising:

- a magnetic/metal security feature including a metallic layer disposed on at least a portion of said carrier substrate, for providing metallic security features, along with a magnetic layer disposed on and in substantially identical registration with said metallic layer, for providing magnetic security features, wherein said metallic layer forms a plurality of conductive regions on said carrier substrate, wherein said conductive regions are separated by non-conductive regions which extend entirely across said width of said carrier substrate, and wherein said magnetic layer and said metallic layer together form visually identifiable magnetic/metal graphic indicia on said at least a portion of said carrier substrate; and/or

- a magnetic/metal security feature including a metallic layer disposed on at least a portion of said carrier substrate, for providing metallic security features, wherein said metallic layer forms a plurality of conductive regions on said carrier substrate, wherein said conductive regions are separated by non-conductive regions which extend entirely across said width of said carrier substrate, along with a magnetic layer disposed on and in substantially identical registration with at least a portion of at least one of said plurality of conductive regions, for providing magnetic security features, wherein said magnetic layer and said at least a portion of at least one conductive region in substantially identical

registration include recesses, said recesses forming visually identifiable indicia.

59. (original) The magnetic/metallic security device of claim 58, which further comprises a coating layer disposed over said magnetic layer.

60. (original) A magnetic/metallic security device for use with an item to provide multiple security features, said magnetic/metallic security device comprising:

- a carrier substrate having a width;

- a metallic layer disposed on at least a portion of said carrier substrate, for providing metallic security features, wherein said metallic layer forms a plurality of conductive regions on said carrier substrate, wherein said conductive regions are separated by non-conductive regions which extend entirely across said width of said carrier substrate; and

- a magnetic layer disposed on and in substantially identical registration with at least a portion of at least one of said plurality of said conductive regions, for providing magnetic security features, wherein recesses forming visually identifiable indicia are formed in at least one of (a) any of said conductive regions and (b) said magnetic layer in substantially identical registration with at least a portion of at least one conductive region.

61. (original) The magnetic/metallic security device of claim 60, which further comprises a coating layer disposed over said magnetic layer.

62. (currently amended) A magnetic/metallic security device for use with an item to provide multiple security features, said magnetic/metallic security device comprising:

- a carrier substrate having a width; and

- a magnetic/metal security feature comprising:

- a magnetic/metal security feature including a metallic layer disposed on at least a portion of said carrier substrate, for providing metallic security features, along with a magnetic layer disposed on and in substantially identical registration with said metallic layer, for providing

magnetic security features, wherein said metallic layer forms a plurality of conductive regions on said carrier substrate, wherein said conductive regions are separated by non-conductive regions which extend entirely across said width of said carrier substrate, and wherein said magnetic layer and said metallic layer together form visually identifiable magnetic/metal graphic indicia on said at least a portion of said carrier substrate; and/or

a magnetic/metal security feature including a metallic layer disposed on at least a portion of said carrier substrate, for providing metallic security features, wherein said metallic layer forms a plurality of conductive regions on said carrier substrate, wherein said conductive regions are separated by non-conductive regions which extend entirely across said width of said carrier substrate, along with a magnetic layer disposed on and in substantially identical registration with at least a portion of at least one of said plurality of conductive regions, for providing magnetic security features, wherein recesses forming visually identifiable indicia are formed in at least one of (a) any of said conductive regions and (b) said magnetic layer in substantially identical registration with at least a portion of at least one conductive region.

63. (original) The magnetic/metallic security device of claim 62, which further comprises a coating layer disposed over said magnetic layer.

64. (original) A magnetic/metallic security device for use with an item to provide multiple security features, said magnetic/metallic security device comprising:

a carrier substrate having a width;

a metal security feature comprising a metallic layer disposed on at least a portion of said carrier substrate, said metallic layer forming a plurality of conductive regions on said carrier substrate, said conductive regions being separated by non-conductive regions which extend entirely across said width of said carrier substrate, each conductive region of said metallic layer including at least one predetermined characteristic that is



detectable such that said metallic layer provides metallic security features, said metallic layer further including visually identifiable graphic indicia; and

a magnetic security feature comprising a magnetic layer including at least one type of magnetic substance having at least one predetermined magnetic characteristic such that said magnetic layer provides magnetic security features;

wherein said magnetic layer is disposed on at least some of said metallic layer.

65. (original) The magnetic/metallic security device of claim 64, which further comprises a coating layer disposed over said magnetic layer.